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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/071,750	02/06/2002	Hyug Man Kweon	51876p291	1605

8791 7590 04/22/2004

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EXAMINER

GANTT, ALAN T

ART UNIT	PAPER NUMBER
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2684

8

DATE MAILED: 04/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/071,750

Applicant(s)

KWEON ET AL.

Examiner

Alan T. Gantt

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 06 February 2002.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>6, 7</u> .  | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-6, 8, and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Baranowski et al.

Regarding claim 1, Baranowski discloses a folder-type mobile communication terminal having a double-sided LCD, comprising:

a first LCD panel; (page 4, lines 8-25)

a second LCD panel; (page 4, lines 8-25) and

a backlight means, which is interposed between the first

and second LCD panels, for bi-directionally illuminating the first and second LCD panels, (page 4, line 20 to page 5, line 6) wherein the backlight means includes ;

a light emitting means for emitting light; (page 4, line 23 to page 5, line 6) and

a light guide plate for distributing the light emitted from the light emitting means to the first and second LCD panels. (page 4, line 20 to page 5, line 6)

Regarding claim 2, Baranowski meet the limitation: The folder-type mobile communication terminal as recited in claim 1, wherein the backlight means further includes two translucent films disposed on both planes of the light guide plate. (page 5, line 26 to page 6, line 1 [Figure 3 shows the two translucent film as the light gathering end of the front and rear optical guides, each of which assist in the backlighting of an LCD panel])

Regarding claim 3, Baranowski meet the limitation: The folder-type mobile communication terminal as recited in claim 2, wherein the light guide plate dominantly distributes uniform light to the first LCD and generates leakage light toward the second LCD. (page 5, line 26 to page 6, line 1)

Regarding claim 4, Baranowski meet the limitation: The folder-type mobile communication terminal as recited in claim 3, wherein the two translucent films include:

a first translucent film disposed between one plane of the light guide plate and the first LCD panel for uniformly transmitting the uniform light to the first LCD panel; (Figure 3, ref. 38 and page 4, line 20 to page 5, line 17) and

a second translucent film disposed between the other plane of the light guide plate

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and the second LCD panel for uniformly transmitting the leakage light to the second LCD panel, wherein a light transmissivity of the first translucent film is higher than that of the second translucent film. (Figure 3, ref. 38 and page 4, line 20 to page 5, line 17 page 5, line 26 to page 6 line 1 [the light filter absorbs or redirects light incident on the rear display to improve visibility of the front display when the flip is in the open position])

Regarding claim 5, Baranowski meets the limitation: The folder-type mobile communication terminal as recited in claim 4, wherein the backlight means further includes a light collecting means formed at an upper portion of the light guide plate for collecting the light emitted from the light emitting means. (Figure 3 and page 4, lines 20-25)

Regarding claim 6, Baranowski meets the limitation: The folder-type mobile communication terminal as recited in claim 4, further comprising a power control means for controlling power of the first and second LCD panels, wherein the power control means controls that the first and second LCD panels are simultaneously or selectively illuminated according to flip stats, opening and shutting of the flip of the folder-type mobile communication terminal. (page 4, line 29 to page 5, line 2 and page 5, lines 9-16)

Regarding claim 8, Baranowski meets the limitation: The folder-type mobile communication terminal as recited In claim 4, wherein the light emitting means is substantially a light emitting diode (LED). (page 4, lines 23-27)

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Regarding claim 9, Baranowski meets the limitation: The folder-type mobile communication terminal as recited in claim 4, wherein the light emitting means is substantially a fluorescent lamp. (page 4, lines 23-27)

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baranowski, et al.

Regarding claim 7, Baranowski acknowledges the use of LCDs for the displays but is silent regarding the use of LCDs that emit three colors (red, green and blue).

However, the examiner takes Official Notice that it is well known to use LCD with these three colors and that it would have been obvious to modify Baranowski to include LCDs using the fore mentioned colors as this aids in the delineation of display details, especially at larger distances.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Kim discloses a dual-sided liquid crystal display device that can display messages such as information on a calling party, received message, and temporal information even when a flip cover is not open.

Lee et al. discloses a folder-type mobile phone having a double panel LCD where at least one face is exposed even upon closing the folder.

Any inquiry concerning this communication from the examiner should be addressed to Alan Gantt at telephone number (703) 305-0077. The examiner can normally be reached between 9:30 AM and 6 PM within the Eastern Time Zone. The group FAX number is (703) 872-9306.

Any inquiry of a general nature or relating to this application should be directed to the group receptionist at telephone number (703) 305-4700.

*Alan T. Gantt*

Alan T. Gantt

April 15, 2004

*Nick Corsaro*  
**NICK CORSARO**  
**PATENT EXAMINER**

*Pm*